

RESILIENT VISION-BASED POSITIONING FOR AERIAL PLATFORMS

NOCTA



COMBAT PROVEN / TRL 9



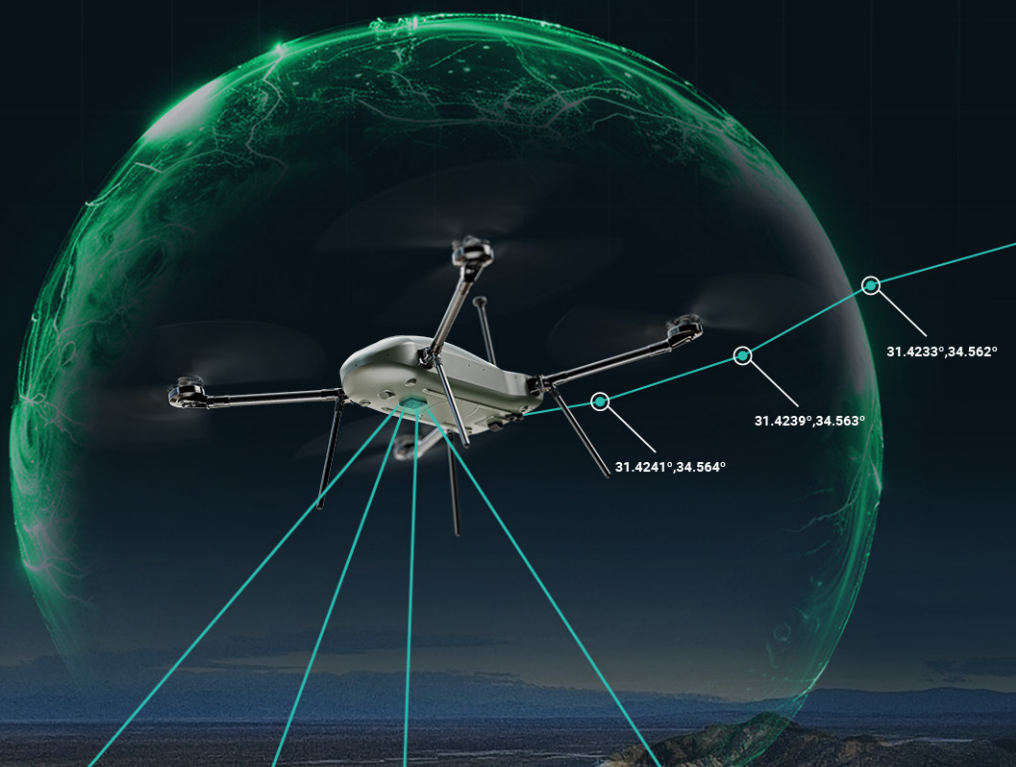
DRIFT FREE, JAM-PROOF SOLUTION



SWaP DESIGN



FULLY INTEGRATED SOLUTION



*Unwavering navigation in **GPS-Denied** and **Spoofed Environments***

In GNSS contested environments, NOCTA delivers assured navigation via real-time visual-inertial processing. This combat-proven, low-SWaP system provides drift-free positioning for Group 1-2 UAS, ensuring reliable, jam-proof performance across thousands of operational hours in hostile zones.

OPERATIONAL BENEFITS

Combat Proven

NOCTA's mature, battle-tested product line ensures peak performance and reliability across diverse terrains and platforms in the most demanding environments.

Drift-Free, Jam-Proof Solution

This jam-proof, visual-inertial positioning solution provides drift-free positioning in GNSS-denied environments, ensuring mission integrity when traditional systems are compromised.



SWaP Design

Engineered for Group 1-2 UAS, NOCTA's low SWaP design maximizes flight endurance and payload capacity without compromising overall platform performance.

Fully Integrated Solution

A self-contained, easy-to-integrate secondary GPS module, NOCTA is operational on diverse platforms ranging from tactical UAS to complex manned aircraft.

PLATFORMS

Any Drone | Multi rotor | VTOL | Fixed-wing | Logistics UAS

Feature	NOCTA Mini EX6L (P/N: 7030-PR-A-000112)	NOCTA Mini EX6 (P/N: 7030-PR-A-000106)	NOCTA Mini EX6D (P/N: 7030-PR-A 000114)
Camera Type	Day and Thermal Camera (LWIR)	Day and Thermal Camera	Day Camera
Sensor	CMOS + Microbolometer	CMOS + Microbolometer	CMOS
Sensor Size / IR Range	LWIR 7.5 - 14µm, 640 x 512, 12µm	LWIR 7.5 - 14µm, 640 x 512, 12µm	-
HFOV	95°	95°	82°
Frame Rate	25 Hz (day), up to 30 Hz (thermal)	25 Hz (day), up to 30 Hz (thermal)	25 Hz
Weight	250g/8.8oz	230g/8.1oz	150g/5.3oz
Power Consumption	5.5W	5W	5W
Operational Window	24/7	24/7	Day
XY Position Performance		≤6m (1σ)	
Enable Auto Landing	V	X	X

Powered by GeoFusion™

Asio's GeoFusion™ enables transformation between GeoData and real-time imagery, creating a common language that connects forces and platforms across the operational environment.

